

ABSTRACT

A liquid crystal display device having a high quality
able to prevent deterioration etc. of a liquid crystal
5 panel even when a liquid crystal panel used in a light
valve of a projector etc. is operated under a high
temperature and high humidity environment and a projection
type display apparatus using the liquid crystal display
device, wherein a liquid crystal layer 16 is sandwiched
10 between a pair of substrates formed by bonding a TFT array
substrate 11 and a counter substrate 12 by a sealing
material 15 so that they face each other across a
predetermined gap, the sealing material 15 contains a
nonconductive filler having a mean particle size of less
15 than 0.5 μm , a liquid crystal material used in the liquid
crystal layer 16 is set in its refractive index anisotropy
 Δn at room temperature to 0.16 or more, and a cell gap d of
an interval between the TFT array substrate 11 and the
counter substrate 12 is set at 3 μm or less.